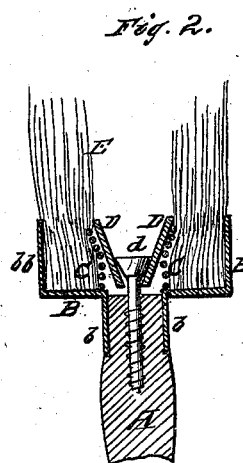
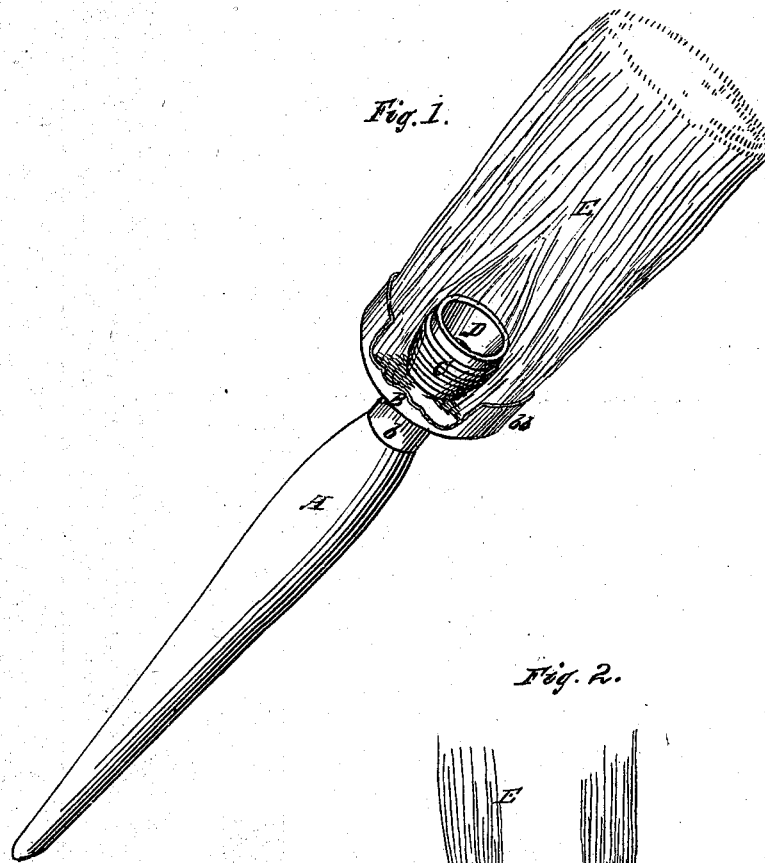


*F. S. Shearer.*

*Paint Brush.*

*Nº 112,387.*

*Patented Mar. 7, 1871.*



*Witnesses:*

*William Catague  
John Adams*

*Inventor:*

*Frederick S. Shearer*

*by Edmund Thurber  
his atty. in fact.*

# United States Patent Office.

FREDERICK S. SHEARER, OF WASHINGTON, ILLINOIS.

Letters Patent No. 112,387, dated March 7, 1871.

## IMPROVEMENT IN PAINT-BRUSHES.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern :*

Be it known that I, FREDERICK S. SHEARER, of Washington, in the county of Tazewell and in the State of Illinois, have invented a Paint-Brush; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawing making a part of this specification, in which like letters of reference refer to like parts, and in which—

Figure 1 represents a perspective view.

Figure 2, a sectional elevation.

This invention consists of a spiral spring, which is expanded by a cone and screw to retain the bristles between the spring and the sides of the shell or bristle-holder.

A is the handle of the paint-brush, which is received in the socket *b* of the shell B.

B, the cup or shell, made either circular or oval, to receive the base of the bristles E, and with a socket, *b*, to receive the handle A of the brush.

C is a spiral spring or cylindrical coil of wire, occupying the center of the shell B and resting on the bottom of the same, the lower coils of which are soldered together, or otherwise fastened, the upper coils fitting closely together, but free to expand by the insertion of the cone D.

D, the cone or expander, either the frustum of a cone in shape or oval, the smaller part or point entering the interior of the spring C, and, by the insertion

of the screw *d*, expands the upper coils of the former and retains the bristles E between the spring and the sides of the shell B.

The operation of this device is as follows:

The shell B is filled with bristles E, and the cylindrical spring C is inserted in the center of the former, containing the cone D, with the screw *d*; the latter being now screwed into the handle A, the upper coils of the spring expand as the cone enters the spring; the screw securely fastens the whole, and the bristles are securely held and retained between the spring and the sides *b b* of the shell B.

The brush, *i. e.*, the bristles, can be replaced by new ones when worn out.

What I claim as my invention is—

The cylindrical or oval expanding spiral spring C, with its corresponding hollow cylindrical or oval base, in combination with the cone D, either circular or oval, the cup or shell B, either cylindrical or oval, with its socket *b*, screw *d*, handle A, and bristles E, substantially as and for the purposes described.

In testimony that I claim the foregoing paint-brush I have hereunto set my hand this 3d day of November, 1870.

FREDERICK S. SHEARER.

Witnesses:

WILLIAM PARAGUS,  
JOHN ADAMS.